

Release notes for ENDF/B Development p-006_C_013
evaluation

ENDF
B-VII.dev

December 2, 2016

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT= 628, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT= 628, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      76 TO      79
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT= 628, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT= 628, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      76
```

2. Missing a section in directory so your directory is messed up. This error will break everything else

MAT= 628, MF= 3, MT=102 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 628, MF= 3, MT=102
SECTION 3/102 NOT IN DIRECTORY      RECORD NUMBER      81
```

3. Missing a section in directory so your directory is messed up. This error will break everything else

MAT= 628, MF= 6, MT=102 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 628, MF= 6, MT=102
SECTION 6/102 NOT IN DIRECTORY      RECORD NUMBER      118
```

- fizcon Errors:

1. The mass field (AWI) is incorrectly set.
MAT= 628, MF= 1, MT=451 (1): Bad mass

```
ERROR(S) FOUND IN MAT= 628, MF= 1, MT=451
AWI SHOULD BE SET TO 9.98623E-01
```

2. Reaction can't use 2-body kinematics
MAT= 628, MF= 6, MT=102 (1): No 2-body

```
ERROR(S) FOUND IN MAT= 628, MF= 6, MT=102
DISCRETE 2-BODY LAW NOT PERMITTED FOR MT= 102
```

- fudge-4.0 Errors:

1. There is a gap in the cross section
reaction label 0: N14 + gamma / Cross section: (Error # 0): Gap in xsect.

WARNING: Gap in cross section data from 2.e6 eV to 20. MeV

2. Calculated and tabulated Q values disagree.
reaction label 0: N14 + gamma (Error # 1): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 8055695.085140228 eV vs 7550220. eV!